Tahun	X1	X2	Y	X1Y	X2Y	X1X2	$X1^2$	$X2^2$	Y^2
2003	2,9669	1,0523	-4,6419	-13,772	-4,885	3,122	8,802	1,107	21,547
2004	3,1000	1,0380	-7,0450	-21,840	-7,313	3,218	9,610	1,077	49,632
2005	3,4889	1,0123	-4,3944	-15,332	-4,448	3,532	12,172	1,025	19,311
2006	4,6339	1,1057	-3,8783	-17,972	-4,288	5,124	21,473	1,223	15,041
2007	3,0105	1,1614	0,0924	0,278	0,107	3,496	9,063	1,349	0,009
2008	6,6308	1,0158	-0,8209	-5,443	-0,834	6,736	43,968	1,032	0,674
2009	6,2492	0,8384	1,9338	12,085	1,621	5,239	39,053	0,703	3,740
∑	**30,080**	**7,224**	**-18,754**	**-61,995**	**-20,039**	**30,467**	**144,141**	**7,516**	**109,953**

n =

7

Rumus Estimasi Koefisien Regresi

∑ Y	=	a n	+	b1 ∑X1	+	b2 ∑X2
∑X1Y	=	a ∑X1	+	b1 $\sum X1^2$	+	b2 ∑X1X2
∑X2Y	=	a ∑X2	+	b2 ∑X1X2	+	b2 $\sum X2^2$

Rumus disubstitusi ke dalam Bentuk Angka

-18,754	=	7	a +	30,080	b1 +	7,224	b2	…….(1)
-61,995	=	30,080	a +	144,141	b1 +	30,467	b2	…….(2)
-20,039	=	7,224	a +	30,467	b1 +	7,516	b2	…….(3)

Kemudian Persamaan (1) dikalikan 144.141 & Persamaan (2) dikalikan 7

-564,133	=	210,561	a +	904,818	b1 +	217,296	b2	
-433,966	=	210,561	a +	1008,987	b1 +	213,267	b2	–
-130,167	=	0,000	a +	-104,169	b1 +	4,030	b2	…….(4)

Selanjutnya Persamaan (1) dikalikan 30.467 & Persamaan (3) dikalikan 7

-135,479	=	50,567	a +	217,296	b1 +	52,185	b2	
-140,275	=	50,567	a +	213,267	b1 +	52,610	b2	–
4,796	=	0,000	a +	4,030	b1 +	-0,425	b2	…….(5)

Persamaan (4) dikalikan 4.030 dan persamaan (5) dikalikan -104.169

-524,5233245	=	-419,7620099	b1 +	16,238	b2	
-499,606	=	-419,7620099	b1 +	44,302	b2	–
-24,918	=	0	b1 +	-28,064	b2	

b2	=	-24,918	:	-28,064
b2	=	**0,88787806**		

Nilai b2 dimasukkan kedalam persamaan (4)

-130,167	=	-104,169	b1 +	4,030	×	0,88787806
-130,167	=	-104,169	b1 +	3,578		
-133,745	=	-104,169	b1			
b1	=	**1,2839194**				

Nilai b1 dan b2 dimasukkan kedalam persamaan (1)

-18,754	=	7	a +	30,080	×	1,28391935	+	7,224	×	0,8878781

-18,754	=	7	a +	38,620551	+	6,41394234
7 a	=	-63,7888				
a	=	-63,7888	:	7		
a	=	**-9,112685**				

Jadi diperoleh koefisien regressi sebagai berikut:

a	=	**-9,113**
b1	=	**1,284**
b2	=	**0,888**

Koefisien Determinasi

$$R^2_{YX1X2} = \frac{b_1 \sum x_1y + b_2 \sum x_2y}{\sum y^2}$$

$$R^2_{YX1X2} = \frac{b_1(n \sum X_1Y - \sum X_1 \sum Y) + b_2 (n\sum X_2Y - \sum X_2 \sum Y)}{n\sum Y^2 - (\sum Y)^2}$$

$$R^2_{YX1X2} = \frac{162,865}{417,949}$$

$$\mathbf{R^2_{YX1X2} = 0,390}$$

Uji Simultan (Uji F)

$$F_{hitung} = \frac{R^2 (n-k-1)}{k (1-R^2)}$$

$$F_{hitung} = \frac{1,558711216}{1,220644392}$$

$$\mathbf{F_{hitung} = 1,277}$$

Korelasi Antar Variabel

$$r_{X1X2} = \frac{X_1X_2 - \sum X_1 \times \sum X_2}{\sqrt{[(n\sum X_1^2 - (\sum X_1)^2 \times (n\sum X_2^2 - (\sum X_2)^2]}}$$

$$r_{X1X2} = \frac{-4,02962345}{6,65597}$$

$$\mathbf{r_{X1X2} = -0,605}$$

$$r_{X1Y} = \frac{\sum X_1Y - \sum X_1 \times \sum Y}{\sqrt{[(n\sum X_1^2 - (\sum X_1)^2 \times (n\sum Y^2 - (\sum Y)^2]}}$$

$$r_{X1Y} = \frac{130,16683}{208,65599}$$

$$\mathbf{r_{X1Y} = 0,624}$$

$$r_{X2Y} = \frac{\sum X_2Y - \sum X_2 \times \sum Y}{\sqrt{[(n\sum X_2^2 - (\sum X_2)^2 \times (n\sum Y^2 - (\sum Y)^2]}}$$

$$r_{X2Y} = \frac{-4,79611}{13,33226}$$

$$\mathbf{r_{X2Y} = -0,360}$$

Korelasi Parsial

$$r_{YX1.X2} = \frac{r_{X1Y} - (r_{X2Y} \times r_{X1X2})}{\sqrt{[1-(r_{X2Y})^2] \times [1-(r_{X1X2})^2]}}$$

$$x_{1.X2} = \frac{0,406044671}{0,742627123}$$

$$\mathbf{r_{YX1.X2} = 0,547}$$

$$x_{2.X1} = \frac{r_{X2Y} - (r_{X1Y} \times r_{X1X2})}{\sqrt{[1-(r_{X1Y})^2] \times [1-(r_{X1X2})^2]}}$$

$$x_{1.X2} = \frac{0,017941648}{0,62204877}$$

$$\mathbf{r_{YX1.X2} = 0,029}$$

Uji Parsial (Uji t)-dihitung dari korelasi parsial

$$\text{thitung X1} = \frac{r_{YX1.X2} \times \sqrt{(n-3)}}{\sqrt{[1-(r_{YX1.X2})^2]}}$$

$$\text{thitung X1} = \frac{1,0935}{0,8373}$$

thitung X1 = 1,306

$$\text{thitung X2} = \frac{r_{YX2.X1} \times \sqrt{(n-3)}}{\sqrt{[1-(r_{YX2.X1})^2]}}$$

$$\text{thitung X2} = \frac{0,0577}{0,9996}$$

thitung X2 = 0,058